

# INTERNATIONAL SEARCH REPORT

Inter Application No  
PCT/IB2004/050684

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G11B7/095

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 13, 5 February 2001 (2001-02-05) & JP 2000 298861 A (PIONEER ELECTRONIC CORP), 24 October 2000 (2000-10-24) abstract	1-6, 9, 10, 12-15
P, Y	-& US 6 690 632 B1 (BRADSHAW ALEX ET AL) 10 February 2004 (2004-02-10) column 3, line 54 - column 6, line 33; figures 1-4	1-6, 9, 10, 12-15
Y	US 6 137 754 A (MURAO NORIAKI ET AL) 24 October 2000 (2000-10-24) column 6, line 9 - column 9, line 40; figures 1-4, 7	1-6, 9, 10, 12-15
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

20 September 2004

Date of mailing of the international search report

29/10/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/060964 A1 (PARK SANG ON) 23 May 2002 (2002-05-23) paragraphs '0052! - '0122!; figures 1-7 -----	1-6, 9, 10, 12-15
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 19, 5 June 2001 (2001-06-05) & JP 2001 052362 A (RICOH CO LTD), 23 February 2001 (2001-02-23) abstract -----	1-15

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Information on patent family members

International Application No  
PCT/IB2004/050684

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
JP 2000298861	A	24-10-2000	US	6690632 B1		10-02-2004
US 6690632	B1	10-02-2004	JP	2000298861 A		24-10-2000
US 6137754	A	24-10-2000	JP	10302285 A		13-11-1998
US 2002060964	A1	23-05-2002	KR	2002039504 A		27-05-2002
			KR	2002039505 A		27-05-2002
JP 2001052362	A	23-02-2001	NONE			

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